



PVS 4120 Portable Samplers

Easy-to-use, Accurate, Durable, Dependable

Portable sampling has never before been so easy! The PVS 4120 is the lightest sampler ever, weighing in at a mere 23 pounds!*

These samplers are compact, yet maintaining the same, reliable, long-lasting vacuum technology as the stationary samplers which SIRCO is renowned for. The vacuum system of sampling results in accurate and dependable results, even with high sediment content or rapid velocities at the sample source. The PVS 4120 portable model features composite or discrete sampling and a programmable controller with 16-key intuitive touchpad.

The pump in the PVS 4120 is smaller than the larger models, which also requires a much smaller battery (4 pounds as opposed to 15), lightening the total weight even more. The light-weight pump is able to take samples at over 5 ft/sec for horizontal draws of up to 25 feet, and exceeds 2.5 ft/sec in the first 15 feet of vertical.

A rugged design and precision in construction give these portable samplers the ability to be set up in one location over time, yet they are easily transportable.

The enclosure of the PVS 4120 is a molded medium-density linear polyethylene, designed to handle tough environmental challenges and weathering. The hub has an insulated ring and a cavity for crushed ice, giving more control over the temperature of the samples.

*Weight does not include 4 Lbs battery.



THE LIGHTEST AUTOMATIC SAMPLER ON THE BLOCK*

Features

- Controller housed in an environmentally sealed enclosure for corrosion protection, and all information is easily controlled and viewable on a 2x16 character backlit LCD.
- Rapid transport velocities of samples, meaning more accurate samples, even of solids over high lifts.
- Composite or discrete sampling.
- Optional hand cart / tilt wheel assembly for easy transport.
- Optional Stainless Steel Suspension harness, for sampling in sewer systems.
- Side handles for easy lifting.
- Three-year warranty.

* At 23 Lbs. plus 4 Lbs. battery, the PVS 4120 is the lightest automatic sampler than can take discrete samples in a cooled environment over time.



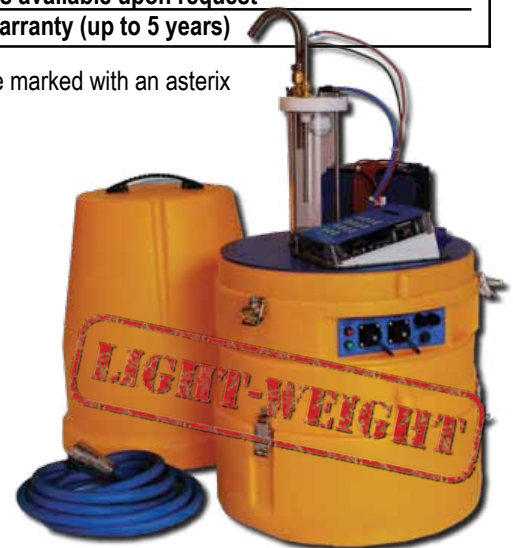
SIRCO PVS 4120 PORTABLE SAMPLER

Sampler		Vacuum System	
Height	31.875 inches 809 mm	Pinch Valve	Fixed – normally open
Height (extended base)	37.875 inches 962 mm	Purge Cycle	Adjustable – 5 to 99 seconds
Body Case Diameter	16.85 inches 428 mm	Suction cycle	Variable – adjusts automatically to double the input value of the purge time setting or until liquid contacts level electrode in metering chamber
Weight (without battery)	23 lbs 10.4 kg	Sample Volume	Adjustable, 50cc to 500cc
Enclosure	Molded medium density linear polyethylene, 3 piece construction and all SS fittings.	Sample Transport Velocity	Vertical: 2.7 ft/s at 15 ft of lift Max vertical 18 ft (5.5m) Horizontal: 4 ft/s at 100 ft Max horizontal > 2.5 ft/s: 220 ft (67m)
Supply Voltage	Integral Battery: 12 Vdc 7 AH (4 lbs) External receptacle: 12 Vdc * 120 Vac/12 Vdc with external battery charger and power cable	Metering Chamber	Acrylic 500cc, 100cc calibration * Pyrex 500cc, 100cc calibration
Cooling System	Insulated container wall Cavity space for ice	Metering Chamber Cover	Nylon * Reinforced Teflon top
Controller		Volume Control Tube	316 stainless steel
Display	2x16 character backlit LCD	Metering Chamber Liquid	316 stainless steel
Touchpad	16-key, calculator-type with multi-level menus	Sensing Rod	
Start Delay	Disabled; Time/Day; Pulse Count; 4-20mA (0-100 pulses/minute); External Contact; Level Control	Intake Hose	Nylon reinforced PVC (3/8" ID by 25' c/w sinker)
Sample Initiation	Disabled; Interval Time; Pulse Count; 4-20mA (0 to 100 pulses/minute); External Contact	Discharge Hose	Latex, 3/8" ID * Silicone, 3/8" ID
Program Type	Composite; Multi-Composite; Consecutive; Daily Cycle; Timed Step	Sample Containers (Composite)	* 2.3 US Gallon (9 L) HDPE * 2.3 US Gallon (9 L) PP * 2.5 US gallon (10 L) glass (ext. base)
Clock	Real Time clock & operating system	Sample Containers (Discrete)	24 Bottles x 500cc (1/2 L) PP * 24 x 1000cc (1 L) PP (ext. base) * 8 Bottles x 1 L glass or HDPE
Direct Function Keys	Manual sample; Manual purge; Manual bottle advance; Restart	Options	
Switches	Controller "on/off" (SPST toggle)	Extra Battery	12Vdc 7AH (4 lbs)
Available displays	Real time clock; Process timing; Process totals; Pulse counting; Event response; Multi-level descriptions; Flashing prompts; Diagnostics	External Charger	For charging in two locations
Automatic displays	Container Full; Fault; Power Interrupt (program resumed); Alternating Time Stamp; Cycle(s) abandoned	Tilt Wheel Assembly	For easy wheeled transport
Backup Power Source	Internal Lithium battery to maintain program settings & info in the case of power failure	Other custom options available upon request	
		Optional extended warranty (up to 5 years)	

* Optional features are marked with an asterix

Specifications

Effluent/liquid sampling unit is to be of the vacuum-type mode of operation, for the collection of liquids at user-specified criteria. Portable unit will have an enclosure of medium-density linear polyethylene or equivalent. Vacuum system is to include a pressure purge before sampling in order to keep system free from contaminants. Control pad will be able to initiate sampling based on user criteria, including but not limited to 4-20mA, interval time, external contact, and manual override. Sampler to be manufactured in Canada or the United States only, and have a three (3) year warranty. Sampling unit to be a PVS 4120 SIRCO Sampler manufactured by Southwell, or approved equivalent.



SIRCO SAMPLERS

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